PATENT COOPERATION TREATY

From the	erry.			MA	Va
To:			F	PCT	VSLATTON
		INTER		OPINION OF	
			(PCT	Rulc 43 <i>bis.</i> 1)	
		Date of maili			
Applicant's or agent's file reference 00-08062WO International application No. International filing		FOR FURT	HER ACTION		
00-08062WO				raph 2 below	
International application No.	International filing date	daymonth/year		late (day/month/y	ear)
	30.10.2006	ر المار دار المار دار المار دار دار		1.2005	,
International Patent Classification (IPC) or hot	national classification an	A IPC			
, ,					
1					
1 This minimum Animal Hardson I	4)- 4- 4)- 6-11				
·		5			
Box No. I Basis of the	opinion				
Box No. II Priority					
	shment of opinion with reg	gard to novelty,	nventive step and	d industrial applic	ability
Box No. IV Lack of unit	y of invention				
Box No. V Reasoned at applicability				reative step or inc	lustrial
Box No. VI Certain doct	uments cited				
Box No. VII Certain defe	ects in the international app	olication			
Box No. VIII Certain obse	ervations on the internation	nal application		•	
2. FURTHER ACTION					
International Preliminary Examining than this one to be the IPEA and the	Authority ("IPEA") excep chosen IPEA has notified	t that this does r the Internation	ot apply where t	be applicant choo	ses an Authority other
written reply together, where approp	ociste, with amendments,	before the expi	ration of 3 mon	the from the dat	
For further options, see Form PCT/IS.	A/220.				
3. For further details, see notes to Form	PCT/ISA/220.				
Name and mailing address of the ISA/JP	Date of completion of	f this opinion	Authorized offic		
	Date of completion (, me okumon	- Louise LEGG Offi	~	
Resimile No.			Telephone No		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2006/321607

ge of a
claimed
n filed or cation as

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2006/321607

Bo	Io. IV Lack of unity of invention
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:
	paid additional fees
	paid additional fees under protest and, where applicable, the protest fee
	paid additional fees under protest but the applicable protest fee was not paid
	not paid additional fees
2.	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
	complied with
	and complied with for the following reasons:
	The "special technical feature" of the inventions set forth in independent claims 1 and 55 relates to first and second polarization members disposed so as to be rotatable around the optical axis of a lighting optical device or an axis almost parallel to the optical axis. The "special technical feature" of the inventions set forth in independent claims 32 and 33 relates to a phase member disposed so as to be rotatable around the optical axis of a lighting optical device or an axis almost parallel to the optical axis. The "special technical feature" of the inventions set forth in independent claims 36 and 37 relates to an optical rotation member disposed so as to be rotatable around the optical axis of a lighting optical device or an axis almost parallel to the optical axis. This being the case, these inventions are not considered to be so linked as to form a single general inventive concept because there is no technical relationship among these inventions involving one or more of the same or corresponding special technical features.
4.	Consequently, this opinion has been established in respect of the following parts of the international application:
	all parts
	the parts relating to claims Nos. 1-31, 44-59

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2006/321607

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or Industrial applicability; clistions and explanations supporting such statement					
1.	Statement				
	Novelty (N)	Claims	1-31, 44-54, 57	YES	
		Claims	55, 56, 58, 59	NO	
	Inventive step (IS)	Claims	1-31, 44-54, 57	YES	
	Claims	55, 56, 58, 59	NO		
	Industrial applicability (IA)	Claims	1-31, 44-59	YES	
		Claims		NO	

2. Citations and explanations:

Document 1: WO 2005/050718 A1 (Nikon Corp.), 02 June 2005 Document 2: WO 2004/051717 A1 (Nikon Corp.), 17 June 2004

Claims 55, 56, 58, 59

The inventions set forth in claims 55, 56, 58, and 59 do not exhibit novelty or involve an inventive step in the light of Documents 1 and 2 cited in the ISR. Document 1 (see paragraphs [0018], [0028]-[0037], [0051]-[0058], Fig. 1) and Document 2 (see the description, pages 42-46, Fig. 16-18) disclose adjusting the angular position of a one-half wavelength plate and a one-fourth wavelength plate, which are configured so as to be rotatable, based on the detection results of a polarization monitor.

Here, the "one-half wavelength plate" and "one-fourth wavelength plate" described in Documents 1 and 2 are equivalent to the "first polarization member" and "second polarization member" of the invention set forth in claim 55. Therefore, Documents 1 and 2 disclose the "polarization state measurement step" and "polarization member rotation step" of the invention set forth in claim 55.

Claims 1-31, 44-54

The inventions set forth in claims 1-31 and 44-54 exhibit novelty and involve an inventive step in the light of the documents cited in the ISR. In particular, providing a first and second polarization member, which impart to incident light an amount of change in polarization status according to an incident position, so as to be rotatable around the center of the optical axis of a lighting optical device is not described in any of the documents cited in the ISR, and moreover could not easily be conceived of by a person skilled in the art.

Claim 57

The invention set forth in claim 57 exhibits novelty and involves an inventive step in the light of the documents cited in the ISR. In particular, measuring the polarization status at a plurality of positions on the illuminated face is not described in any of the documents cited in the ISR, and moreover could not easily be conceived of by a person skilled in the art.